Remarks

Prior to examination, the applicant requests entry of the amendments noted above.

Claims 1-32 and a duplicate claim 28 were pending prior to this Amendment.

In the specification, numerous typographical errors were corrected. No new matter was introduced through these corrections.

In the claims section of the original application, claims 2 and 28 were cancelled. Claim 28 was inadvertently listed twice. Claims 11 and 20 were amended to better claim that which the applicant considers his invention. Claim 22 was amended to correct a typographical error. Claims 1-10, 12-19, 21 and 23-32 remain unchanged.

In the drawings, a number of replacement sheets are submitted to correct typographical errors or to enhance the readability of the figures. All of the drawing figure changes, with the exception of Figure 1E and 3, have been amended to look as they did in United States Provisional Patent Application Nos. 60/399,635 entitled "Data Dispersion and Mirroring Method with Fast Dual Erasure Correction and Multi-Dimensional Capabilities" filed on July 29, 2002, and 60/460,545 entitled "Composite Data Protection Method for Micro Level Data" filed April 4, 2003. Since these applications were incorporated into the present application by reference, no new matter has been added through these changes.

With respect to Figure 1E, the changes are supported by at least the text in paragraphs 0077 through 0080.

With respect to Figure 3, the changes are supported by at least the text in paragraph 0062. If any fee is required for entry of this paper, the Commissioner is authorized to charge Deposit Account No. 06-0029 and is requested to notify us of the same.

Respectfully Submitted,

ROBERT HALFORD

Date: January 13, 2005

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M2:20572133.04

Application No.: 10/624,208 Preliminary Amendment

AMENDMENTS TO THE DRAWINGS

Please replace Figures 1D, 1E, 2A, 2C, 3, 5, 7, 12, 13, 14 and 17, with the attached Replacement Sheets. Annotated marked-up drawings are also provided that identify the changes in the above noted Figures.

Applicant: Robert HALFORD
App. No.: 10624 208
For. Multi-Dimensional Data . . . Micro Level Data
Docket No.: 59425-294979
Attorney: Robert B. Leonard. Reg. No. 33,946
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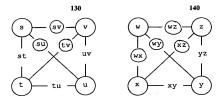


FIG 1D

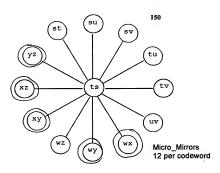


FIG 1E

Applicant: Robert HALFORD
App. No: 10/624.208
For: Multi-Dimensional Data:... Micro Level Data
Docket No: 59425:294979
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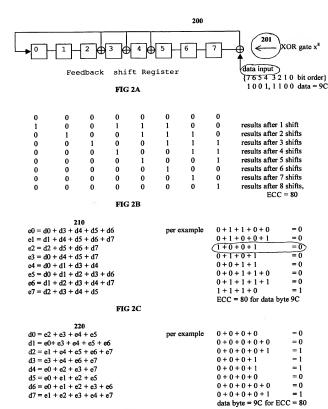
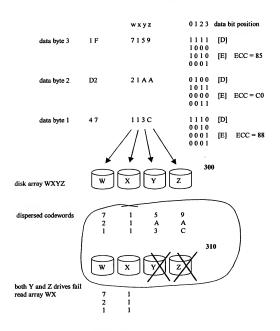


FIG 2D

Applicant: Robert HALFORD
App. No.: 10/624.208
For: Multi-Dimensional Data . . . Micro Level Data
Docket No.: 59425-294979
Attorney: Robert B. Leonard, Reg. No. 33,946
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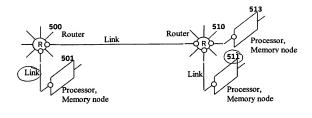


Recovered Data

1F D2 47

FIG 3

Applicant: Robert HALFORD
App. No.: 10/624/208
For: Multi-Dimensional Data . . . Micro Level Data
Docket No.: 59/425/29/4979
Attorney: Robert B. Leonard, Reg. No. 33,946
Sheet.4 of 8 (Redline Version)
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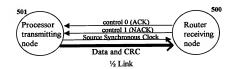


FIG 5

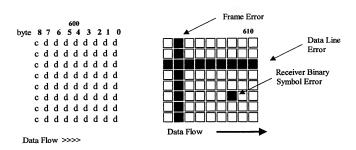


FIG 6A

FIG 6B

Applicant: Robert HALFORD
App. No: 10/624,208
For: Multi-Dimensional Data... Micro Level Data
Dacket No: 59/425-29/4079
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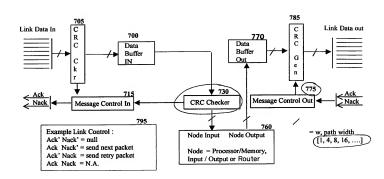


FIG 7

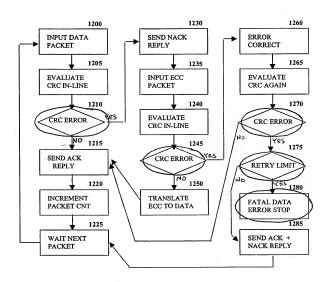


FIG 12

Applicant: Robert HALFORD
App. Nos: 10/624.208
Docket No: 59/425.394979
Attorney: Robert B. Locard: Reg. No. 33,946
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[E] c6uc2u u30 u26 u22 c6vc2v v30 v26 v22 c7uc3u u31 u27 u23 c7vc3v v31 v27 v23 c4uc0u u28 u24 u20 c4vc0v v28 v24 v20 c5uc1u u29 u25 u21	u18 u14 u10 u06	2 c4sc0s s28 s	24 s20 s16 s	s12 s08 s04 s00
	v18 v14 v10 v06	2 c4tc0t t28 t	24 t20 t16 t	t12 t08 t04 t00
	u19 u15 u11 u07	c5sc1s s29 s	25 s21 s17 s	s13 s09 s05 s01
	v19 v15 v11 v07	c5tc1t t29 t	25 t21 t17 t	t13 t09 t05 t01
	u16 u12 u08 u04	0 c6sc2s s30 s	26 s22 s18 t	s14 s10 s06 s02
	v16 v12 v08 v04	0 c6tc2t t30 t	26 t22 t18 t	t14 t10 t06 t02
	u17 u13 u09 u05	1 c7sc3s s31 s	27 s23 s19 s	s15 s11 s07 s03
c5uc1u u29 u25 u21 c5vc1v v29 v25 v21				t15 t11 t07 t03

Data Flow >>>

<<< NACK

<<< ACK

FIG 13

```
[D]
                                                                   1400
                         1401
             (E)
                                        (c4sc0s)s28 s24 s20 s16 s12 s08 s04 s00
c6uc2u u30 u26 u22 u18 u14 u10 u06 u02
                                         C4tc0t t28 t24 t20 t16 t12 t08 t04 t00
c6vc2v v30 v26 v22 v18 v14 v10 v06 v02
                                         c5sc1s s29 s25 s21 s17 s13 s09 s05 s01
c7uc3u u31 u27 u23 u19 u15 u11 u07 u03
                                         c5tc1t t29 t25 t21 t17 t13 t09 t05 t01
c7vc3v v31 v27 v23 v19 v15 v11 v07 v03
                                         c6sc2s s30 s26 s22 s18 s14 s10 s06 s02
c4uc0u u28 u24 u20 u16 u12 u08 u04 u00
                                         c6tc2t t30 t26 t22 t18 t14 t10 t06 t02
C4vC0v v28 v24 v20 v16 v12 v08 v04 v00
                                         c7sc3s s31 s27 s23 s19 s15 s11 s07 s03
c5uclu u29 u25 u21 u17 u13 u09 u05 u01
                                         c7tc3t t31 t27 t23 t19 t15 t11 t07 t03
c5vc1v v29 v25 v21 v17 v13 v09 v05 v01
```

Data Flow >>>

<<< NACK

<<< ACK

FIG 14

Begin with Byte 00 Transmitted

s00t00 = 18h (data = ts = 81h)

Received

u00v00 = 77h (ECC = vu = 77h)u00v00 = 75h (ECC = vu = 57h)

s00t00 = 1Ah (data = ts = A1h) u00v00 = 75h (ECC So correction proceeds exactly as before in Figure 8 for byte 00.

All 32 bytes are assembled and corrected then verified via the CRC checkcode comparison.

FIG 14A

Applicant: Robert HALFORD

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